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To:Meredith Petravick

Location: 2A35 Art Unit: 3671

Tuesday, June 13, 2006

Case Serial Number: 10/765029

From: Etelka R. Griffin

Location: EIC 3600

KNOX/4B68

Phone: 571-272-4230

Etelka.griffin@uspto.gov

Searem Notes

LITIGATION-5463852

Searches completed on the following databases:

LEXIS/NEXIS
QUESTEL/ORBIT
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Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents

Terms: patno=5463852 (Edit Search | Suggest Terms for My Search)

234232 (08) 5463852 November 7, 1995

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5463852

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November 7, 1995

Wide cut harvester having rotary cutter bed

REISSUE: January 26, 2004 - Reissue Application filed Ex. Gp.: 3671; Re. S.N. 10/765,029

(O.G. April 20, 2004)

APPL-NO: 234232 (08)

FILED-DATE: April 28, 1994

GRANTED-DATE: November 7, 1995

ASSIGNEE-PRE-ISSUE: April 28, 1994 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., HAY & FORAGE INDUSTRIES 420 LINCOLN BLVD. HESSTON, KS

67062, Reel and Frame Number: 006974/0965

ASSIGNEE-AT-ISSUE: Hay & Forage Industries, Hesston, Kansas, United States (US), United States company or corporation (02)

ASSIGNEE-AFTER-ISSUE: April 27, 2001 - SECURITY AGREEMENT, COOPERATIEVE CENTRALE RAIFFEISEN-BOERENLEENBANK, B.A., "RABOBANK NEDERLAND", NEW YORK BRANCH AS ADMINSTRATIVE AGENT 245 PARK AVENUE, 36TH FLOORNEW YORK, NEW YORK, 10167, Reel and Frame Number: 011742/0152

March 21, 2002 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., AGCO VENTURES LLC 4205 RIVER GREEN PARKWAYDULUTH, GEORGIA, 30096, Reel and Frame Number: 012729/0193

March 26, 2002 - MERGER (SEE DOCUMENT FOR DETAILS)., AGCO CORPORATION 4205 RIVER GREEN PARKWAYDULUTH, GEORGIA, 30096, Reel and Frame Number: 012729/0507 March 26, 2002 - MERGER (SEE DOCUMENT FOR DETAILS)., AGCO CORPORATION 4205 RIVER GREEN PARKWAYDULUTH, GEORGIA, 30096, Reel and Frame Number: 012754/0524 March 12, 2004 - SECURITY AGREEMENT, RABOBANK INTERNATIONAL 245 PARK AVENUE NEW YORK NEW YORK 10167-5120, Reel and Frame Number: 016480/0354

CORE TERMS: cutter, shaft, valve, bed, gear case, drive, gear, cage, pump, timing ...

ENGLISH-ABST:

A harvester which uses a rotary style cutter bed has a series of rotary cutters extending across the path of travel of the machine and rotatable about individual upright axes. Part of the cutter bed is a flat gear case containing a train of intermeshed spur gears that serve to distribute power between the cutters above the gear train. Each end of the gear case has a hollow, gearless extension welded thereto which supports at least one additional outboard cutter that receives its driving power exteriorally of the gear case. One embodiment uses a mechanical drive to bring power to the upright shaft of the cutter having the first spur gear so that the cutters with gears receive all their power from the driven cutter. The outboard cutters not having gears are driven by exterior, over-the-top drive mechanism coupled with the shafts of the first and last geared cutters, such drive mechanism alternatively taking the form of timing belts with timing sheaves, chains and sprockets, gear box and universal joint couplings or a spur gear train. As an alternative to a mechanical drive, the cutter bar may utilize a pair of hydraulic motors coupled with the shafts of the first and last cutters having gears. All of the gears in the gear case remain positively enmeshed with one another in the gear train, so that the two hydraulic motors share the total load of driving the cutter bed and such loading is balanced between the two hydraulic motors, prolonging the useful life of the gears and other drive components. The added on, outboard cutters are driven over the top using timing belts, timing sheaves, universal couplings or a spur gear train.

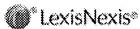
Source: Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant

Patents :

Terms: patno=5463852 (Edit Search | Suggest Terms for My Search)

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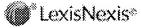
Segments: Abst, Assignee, English-abst, Reissue Date/Time: Tuesday, June 13, 2006 - 12:01 PM EDT



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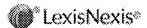
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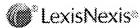
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PLUSPAT - @QUESTEL-ORBIT - image
Patent Number :
  US5463852 A 19951107 [US5463852]
Title :
  (A) Wide cut harvester having rotary cutter bed
Patent Assignee :
  (A) HAY & FORAGE IND (US)
Patent Assignee :
  Hay & Forage Industries, Hesston KS [US]
Inventor(s):
  (A) FRITZ DAVID P (US); CASE CECIL L (US); PRUITT MARTIN E (US);
  O'HALLORAN MICHAEL L (US)
Application Nbr :
  US23423294 19940428 [1994US-0234232]
Priority Details :
  US23423294 19940428 [1994US-0234232]
Intl Patent Class :
  (A) A01D-034/66
IPC Advanced All:
  A01D-034/66 [2006-01 A - I R M EP]; A01D-034/76 [2006-01 A - I R M EP]
IPC Core All :
  A01D-034/63 [2006 C - I R M EP]
EPO ECLA Class :
  A01D-034/66
  A01D-034/76
US Patent Class :
  ORIGINAL (0): 056006000; CROSS-REFERENCE (X): 056013900 056192000
  056295000 056DIG006 056DIG011
Document Type :
  Basic
Citations :
  US2523014; US2765611; US2777272; US3774380; US3857225; US4126989;
  US4253294; US4759172; US4860527; US4879870; US4899523; US4909023;
  US5060462; US5094063; US5172539; US5179822; US5272859
Publication Stage :
  (A) United States patent
Abstract :
  A harvester which uses a rotary style cutter bed has a series of rotary
  cutters extending across the path of travel of the machine and rotatable
  about individual upright axes. Part of the cutter bed is a flat gear
  case containing a train of intermeshed spur gears that serve to
  distribute power between the cutters above the gear train. Each end of
  the gear case has a hollow, gearless extension welded thereto which
  supports at least one additional outboard cutter that receives its
  driving power exteriorally of the gear case. One embodiment uses a
  mechanical drive to bring power to the upright shaft of the cutter
  having the first spur gear so that the cutters with gears receive all
  their power from the driven cutter. The outboard cutters not having
  gears are driven by exterior, over-the-top drive mechanism coupled with
  the shafts of the first and last geared cutters, such drive mechanism
  alternatively taking the form of timing belts with timing sheaves,
  chains and sprockets, gear box and universal joint couplings or a spur
  gear train. As an alternative to a mechanical drive, the cutter bar may
  utilize a pair of hydraulic motors coupled with the shafts of the first
  and last cutters having gears. All of the gears in the gear case remain
  positively enmeshed with one another in the gear train, so that the two
  hydraulic motors share the total load of driving the cutter bed and such
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loading is balanced between the two hydraulic motors, prolonging the

useful life of the gears and other drive components. The added on, outboard cutters are driven over the top using timing belts, timing sheaves, universal couplings or a spur gear train.

1 / 1 LGST - @EPO

Patent Number :

US5463852 A 19951107 [US5463852]

Application Number :

US23423294 19940428 [1994US-0234232]

Action Taken :

19940428 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: HAY & FORAGE INDUSTRIES 420 LINCOLN BLVD. HESSTON,; EFFECTIVE

DATE: 19940426

19940428 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: O'HALLORAN, MICHAEL L.; EFFECTIVE DATE: 19940426

19940428 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: CASE, CECIL L.; EFFECTIVE DATE: 19940426

19940428 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: PRUITT, MARTIN E.; EFFECTIVE DATE: 19940426

19940428 US/AS02-A

ASSIGNMENT OF ASSIGNOR'S INTEREST

OWNER: FRITZ, DAVID P.; EFFECTIVE DATE: 19940426

20010427 US/AS-A

ASSIGNMENT

OWNER: COOPERATIEVE CENTRALE RAIFFEISEN-BOERENLEENBANK, B; EFFECTIVE

DATE: 20010417

SECURITY AGREEMENT; ASSIGNOR: HAY & FORAGE

INDUSTRIES; REEL/FRAME: 011742/0152

20010427 US/AS-A

ASSIGNMENT

OWNER: COOPERATIEVE CENTRALE RAIFFEISEN-BOERENLEENBANK, B; EFFECTIVE

DATE: 20010417

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/AR; REEL/FRAME: 011742/0152

20020321 US/AS-A

ASSIGNMENT

OWNER: AGCO VENTURES LLC 4205 RIVER GREEN PARKWAY DULUTH; EFFECTIVE

DATE: 20000515

ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: HFI HOLDINGS,

INC.;REEL/FRAME:012729/0193

20020321 US/AS-A

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OWNER: AGCO VENTURES LLC 4205 RIVER GREEN PARKWAYDULUTH,; EFFECTIVE

DATE: 20000515

ASSIGNMENT OF ASSIGNORS INTEREST; ASSIGNOR: HFI HOLDINGS, INC.

/AR; REEL/FRAME: 012729/0193

20020326 US/AS-A

ASSIGNMENT

OWNER: AGCO CORPORATION 4205 RIVER GREEN PARKWAY DULUTH G; EFFECTIVE

DATE: 20011219

MERGER; ASSIGNOR: HESSTON VENTURES CORPORATION; REEL/FRAME: 012729/0507

20020326 US/AS-A

ASSIGNMENT

OWNER: AGCO CORPORATION 4205 RIVER GREEN PARKWAY DULUTH G; EFFECTIVE

DATE: 20011219

MERGER; ASSIGNOR: AGCO VENTURES LLC; REEL/FRAME: 012754/0524

20020326 US/AS-A

ASSIGNMENT

OWNER: AGCO CORPORATION 4205 RIVER GREEN PARKWAYDULUTH, G; EFFECTIVE

DATE: 20011219

MERGER; ASSIGNOR: HESSTON VENTURES CORPORATION /AR; REEL/FRAME: 012729/0507

20020326 US/AS-A

ASSIGNMENT

OWNER: AGCO CORPORATION 4205 RIVER GREEN PARKWAYDULUTH, G; EFFECTIVE

DATE: 20011219

MERGER; ASSIGNOR: AGCO VENTURES LLC /AR; REEL/FRAME: 012754/0524

20040312 US/AS-A

ASSIGNMENT

OWNER: RABOBANK INTERNATIONAL 245 PARK AVENUE COOPERATIEV; EFFECTIVE

DATE: 20040105

SECURITY AGREEMENT; ASSIGNOR: AGCO CORPORATION /AR; REEL/FRAME: 016480/0354

20040420 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040126

Update Code :

2006-11

1 / 1 CRXX - @CLAIMS/RRX

Patent Number :

5,463,852 A 19951107 [US5463852]

Patent Assignee :

Hay & Forage Industries

Actions :

20010427 REASSIGNED

SECURITY AGREEMENT

Assignor: HAY & FORAGE INDUSTRIES DATE SIGNED: 04/17/2001

Assignee: COOPERATIEVE CENTRALE RAIFFEISEN-BOERENLEENBANK, B.A., "RABOBANK NEDERLAND", NEW YORK BRANCH AS ADMINSTRATIVE AGENT 245 PARK

AVENUE, 36TH FLOOR NEW YORK NEW YORK 10167

Reel 011742/Frame 0152

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20020321 REASSIGNED

ASSIGNMENT OF ASSIGNORS INTEREST

Assignor: HFI HOLDINGS, INC. DATE SIGNED: 05/15/2000

Assignee: AGCO VENTURES LLC 4205 RIVER GREEN PARKWAY DULUTH GEORGIA

30096

Reel 012729/Frame 0193

Contact: HOVEY WILLIAMS LLP STEPHEN D. TIMMONS 2405 GRAND BOULEVARD, SUITE 400 KANSAS CITY, MO 64108

20020326 REASSIGNED

MERGER

Assignor: AGCO VENTURES LLC DATE SIGNED: 12/19/2001

Assignee: AGCO CORPORATION 4205 RIVER GREEN PARKWAY DULUTH GEORGIA 30096

Reel 012754/Frame 0524

Contact: HOVEY WILLIAM LLP STEPHEN D. TIMMONS 2405 GRAND BOULEVARD,

SUITE 400 KANSAS CITY, MO 64108

20020326 REASSIGNED

MERGER

Assignor: HESSTON VENTURES CORPORATION DATE SIGNED: 12/19/2001

Assignee: AGCO CORPORATION 4205 RIVER GREEN PARKWAY DULUTH GEORGIA 30096

Reel 012729/Frame 0507

Contact: HOVEY WILLIAMS LLP STEPHEN D. TIMMONS 2405 GRAND BOULEVARD,

SUITE 400 KANSAS CITY, MO 64108

20040126 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20040420
REISSUE REQUEST NUMBER: 10/765029
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3671

Reissue Patent Number:

20040312 REASSIGNED SECURITY AGREEMENT

Assignor: AGCO CORPORATION, DATE SIGNED: 01/05/2004

Assignee: RABOBANK INTERNATIONAL, 245 PARK AVENUE, COOPERATIEVE CENTRALE RAIFFEISEN-BOERENLEENBANK B.A., "RABOBANK NEDERLAND", NEW YORK BRANCH, NEW YORK, NEW YORK, 10167-5120

Reel 016480/Frame 0354

Contact: LASHANA C. JIMMAR PARALEGAL, PAUL, HASTINGS, JANOFSKY & WALKER LLP, 600 PEACHTREE STREET, SUITE 2400, ATLANTA, GA 30308

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1 / 1 INPADOC - @INPADOC
Patent Number :
 US 5463852 A 19951107 [US5463852]
Title :
 Wide cut harvester having rotary cutter bed
Inventor(s):
 O'HALLORAN MICHAEL L [US]; CASE CECIL L [US]; PRUITT MARTIN E [US];
 FRITZ DAVID P [US]
Patent Assignee (Words) :
 HAY & FORAGE IND [US]
Application Details :
 US 234232/94-A 19940428 [1994US-0234232]
Priority Details :
 US 234232/94-A 19940428 [1994US-0234232]
Intl. Patent Class. :
 A01D-034/66
1 / 1
      LGST - @EPO
Patent Number :
 US5463852 A 19951107 [US5463852]
Application Number :
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 DATE: 19940426
 19940428 US/AS02-A
 ASSIGNMENT OF ASSIGNOR'S INTEREST
 OWNER: O'HALLORAN, MICHAEL L.; EFFECTIVE DATE: 19940426
 19940428 US/AS02-A
  ASSIGNMENT OF ASSIGNOR'S INTEREST
  OWNER: CASE, CECIL L.; EFFECTIVE DATE: 19940426
 19940428 US/AS02-A
 ASSIGNMENT OF ASSIGNOR'S INTEREST
  OWNER: PRUITT, MARTIN E.; EFFECTIVE DATE: 19940426
  19940428 US/AS02-A
  ASSIGNMENT OF ASSIGNOR'S INTEREST
  OWNER: FRITZ, DAVID P.; EFFECTIVE DATE: 19940426
  20010427 US/AS-A
  ASSIGNMENT
  OWNER: COOPERATIEVE CENTRALE RAIFFEISEN-BOERENLEENBANK, B; EFFECTIVE
  DATE: 20010417
  SECURITY AGREEMENT; ASSIGNOR: HAY & FORAGE
  INDUSTRIES; REEL/FRAME: 011742/0152
  20010427 US/AS-A
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20020321 US/AS-A

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OWNER: AGCO VENTURES LLC 4205 RIVER GREEN PARKWAY DULUTH; EFFECTIVE

DATE: 20000515

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INC.; REEL/FRAME: 012729/0193

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/AR; REEL/FRAME: 012729/0193

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DATE: 20011219

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DATE: 20011219

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20040312 US/AS-A

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DATE: 20040105

SECURITY AGREEMENT; ASSIGNOR: AGCO CORPORATION /AR; REEL/FRAME: 016480/0354

20040420 US/RF-A

REISSUE APPLICATION FILED

EFFECTIVE DATE: 20040126

Update Code :

2006-11